**Activity: Introduction to Polynomials**

For each graph below, find the equation, type, and degree cut out. Paste them in the space provided. (Be careful with your graphing window.)

|  |  |
| --- | --- |
| 1. | equation |
| degree |
| type |
| 2. | equation |
| degree |
| type |
| 3. | equation |
| degree |
| type |
| 4. | equation |
| degree |
| type |
| 5. | equation |
| degree |
| type |

|  |  |
| --- | --- |
| 6. | equation |
| degree |
| type |
| 7. | equation |
| degree |
| type |
| 8. | equation |
| degree |
| type |
| 9. | equation |
| degree |
| type |
| 10. | equation |
| degree |
| type |

|  |  |
| --- | --- |
| monomial | quartic |
| binomial | quartic |
| trinomial | quartic |
| trinomial | quartic |
| trinomial | quartic |
| trinomial | y = x5 |
| polynomial | y = -x4 + 1 |
| polynomial | y = 2x3 – 4x2 + 1 |
| polynomial | y = -2x3 – x2 + 1 |
| polynomial | y = x5 – x4 + x3 – x2 – 4x – 1 |
| cubic | y = -3x4 + 8x2 + 1 |
| cubic | y = x4 + 3x3 – x2 – 3x |
| cubic | y = x4 – 3x2 + 2 |
| quintic | y = 4x4 – 5x3 – 8x2 + 5x |
| quintic | y = $- \frac{1}{10}$x3 - $\frac{3}{10}$x2 + $\frac{9}{5} $x + 4 |